

PLTW Computer Science and Software Engineering 2015-2016 Scale-Up Program

Overview: Funding will assist Iowa educators in implementing PLTW's Computer Science and Software Engineering (CSE) course with the flexibility to fit the course within either a school's existing [PLTW Engineering](#) program (PLTW Engineering: CSE Scale-Up) or as a start to the [PLTW Computer Science](#) program (PLTW Computer Science: CSE Scale-Up). If interested in PLTW Engineering: CSE – tuition will be provided for CSE Core Training. If interested in PLTW Computer Science: CSE – tuition for CSE Core Training AND the annual PLTW Computer Science Participation Fee for 2015-16.

Grade Levels: 9-12

Program Summary

Project Lead The Way (PLTW) is a nonprofit organization and the nation's leading provider of K-12 science, technology, engineering, and math (STEM) curricular programs—including PLTW Launch* (K-5), PLTW Gateway* (6-8), and three high school programs: [PLTW Engineering*](#), [PLTW Computer Science*](#) and PLTW Biomedical Science. PLTW's world-class, activity-, project-, and problem-based curriculum and high-quality teacher professional development model, combined with an engaged network of educators and corporate partners, help students develop the skills needed to succeed in our global economy. PLTW's rigorous and relevant curriculum is collaboratively developed and consistently reviewed and improved by PLTW staff, teachers, university educators, industry experts, and school administrators. It leverages an innovative, project-based approach, fostering collaboration and building critical thinking skills.

**Part of 2015-16 Iowa Governor's STEM Scale-Up selected programs*

What does the project provide?

Funding will assist Iowa high schools in implementing Project Lead The Way's Computer Science and Software Engineering (CSE) course, which has the flexibility to fit within either the PLTW Engineering or the PLTW Computer Science program. As such, PLTW will offer two Scale-Up funding options for implementing the CSE course:

1. PLTW Engineering: CSE — As a specialization course in the PLTW Engineering program, educators will be provided tuition for the Computer Science and Software Engineering (CSE) Core Training.
 2. PLTW Computer Science: CSE — As part of the PLTW Computer Science program, educators will be provided tuition for Computer Science and Software Engineering (CSE) Core Training **AND** the PLTW Computer Science Participation Fee for the 2015-2016 academic year. Thereafter, the \$2000 annual program fee will be the responsibility of the site.
- Computer Science and Software Engineering (CSE) Core Training will be for one educator held at:
- [Iowa State University College of Engineering](#), Ames, IA: Monday, July 6th —Friday, July 17th
 - [The University of Iowa College of Engineering](#), Iowa City, IA: Monday, July 20th —Friday, July 31st

What is required by the applicant in order to implement this program?

- Sites need to review the [Iowa Governor's STEM Advisory Council's 2015-16 Scale-Up Programs info](#) and pertinent PLTW information: [PLTW Engineering or PLTW Computer Science Program Requirements](#), the [sample PLTW Agreement](#), the [PLTW Partnership Team Guidebook](#) and the PLTW Guide to Successful Implementation PDF.
- Sites will then need to [apply for the Iowa Governor's STEM Scale-Up](#) and [register the program with Project Lead The Way](#). Registration does not commit the site to PLTW implementation; however, it does provide valuable information about a site's program and Scale-Up award interest to [Project Lead The Way](#) and the [Iowa Gov.'s STEM Adv. Council](#).
- Review the [PLTW Register Now](#) webpage. Choosing either 1) [My school or organization already has one or more PLTW programs](#) OR 2) [This is my school or organization's first PLTW program](#) and follow the instructions listed.
- [Register the school district and/or the participating schools](#). Select a [District Administrator \(DA\) and School Administrator \(SA\)](#) (for each school) to serve as the main points of contact with PLTW and be responsible for providing and maintaining accurate data and information. Upon registration, the DA will receive an email with a link to the [PLTW Agreement](#).
- Review site's PLTW agreement with authorities such as the school board, superintendent, and legal department to ensure all parties are aware of district and school responsibilities. After obtaining the authorized signatures, email agreement to [PLTW School Support Team](#).
- Execute LEA Agreement with PLTW as a part of the Scale-Up before attending Core Training and before purchasing materials.
- Select a teacher to attend PLTW CSE Core Training. Teachers should be excited to teach a project-based curriculum and meet the requirements of the PLTW agreement. After the signed agreement has been received and processed, the DA and/or SA should contact the [PLTW School Support Team](#) (877-335-7589) to add and/or update district/school contacts, including teachers.
- [Register teachers](#) for CSE Teacher Training (2-week training). Teachers must successfully complete and pass all required online PLTW CSE Readiness Training modules prior to attending and passing Core Training. Award covers tuition for one teacher, which includes parking and lunch meals; however, this does not include other costs associated with Core Training, such as lodging, teacher stipend, additional meals, etc. Training sites will provide training lodging/meals packages for participants.
- Review the [PLTW Order Instructions](#), the PLTW CSE Pricing in [Computer Science Inventory Workbook](#) and [PLTW Computer Specifications](#) to order the necessary equipment and supplies for the course. Start the ordering process early to ensure the lab is fully equipped before the new school year.

Website to View Program and Standards Alignment: <http://alignment.pltw.org/site/index>

PLTW Video: <https://www.youtube.com/watch?v=jXGjNRceHa0&list=PLcCTPHuIP75L4OB5bdEiFmryWewqxbXRT&index=9>